Claims.

- (Currently Amended) Vessel for molten silicon comprising a silicon composite
 thermet sprayed coating comprising metal silicon, silicon nitride and silicon oxide
 on at least a part of the <u>an</u> interior wall of the silicon holding vessel, the silicon
 composite thermet sprayed coating comprising a mixing ratio of metal silicon (X):
 silicon nitride (Y): silicon oxide (Z) of X:Y:Z[[:]] = 20-50: 77-30: 3-20.
- (Previously presented) A vessel according to claim 1, wherein the silicon
 composite thermet sprayed coating is formed by spraying a silicon composite
 thermet material made by adding metal silicon as a bonding material to a mixture
 of silicon nitride and silicon oxide.
- (Currently Amended) A vessel according to claim 1, wherein the silicon holding vessel comprises a material selected from a group consisting of silicon oxide, boron nitride and graphite.
- (Currently Amended) A vessel according to claim 3, wherein the silicon oxide is selected from a group consisting of densified fused silica and sintered fused silica.
- (Previously presented) A vessel according to claim 1, wherein the coating has a thickness of 20-500 µm.
- 6. (Previously presented) A method of producing a vessel for molten silicon, the method comprising spraying a silicon composite thermet material comprising metal silicon, silicon nitride and silicon oxide on an interior wall of the vessel, thereby forming a silicon composite thermet sprayed coating wherein the silicon

thermet sprayed coating has a mixing ratio of metal silicon (X): silicon nitride (Y); silicon oxide (Z) of X:Y:Z: = 20-50: 77-30: 3-20.

- (Previously presented) A method according to claim 6, wherein the vessel
 comprises a material selected from a group consisting of silicon oxide, boron
 nitride and graphite.
- (Previously presented) A method according to claim 7, wherein the silicon oxide comprises densified fused silica.
- (Previously presented) A method according to claim 7, wherein the silicon oxide comprises sintered fused silica.
- (Previously presented) A vessel according to claim 1, wherein the coating has a thickness 50-300 μm.